

INTERNATIONAL SEARCH REPORT

International application No.

PCT/KR03/01428

A. CLASSIFICATION OF SUBJECT MATTER

IPC7 B01D 63/04, D01D 5/24

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7 B01D, D01D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
Korean Patents and applications for inventions since 1975, Korean Utility models and applications for Utility models since 1975
Japanese Utility models and applications for Utility models since 1975

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
eKIPASS

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 2002/0033371 A1 (Morimura Kousan Co., Ltd.) 21 March 2002 see the whole document	1
Y	JP 3-278821 A (Toray Co., Ltd.) 10 December 1991 see the whole document	1
Y	JP 3-80924 A (Mitsubishi Kagaku Co., Ltd.) 5 April 1991 see the whole document	1, 4
A	JP 10-118468 A (Pall Corporation) 12 May 1998 see the whole document	1
A	WO 95/34373 A1 (Baxter International Inc.) 21 December 1995 see the whole document	1
A	US 4,874,514 A (Wetco of Delaware, Inc.) 17 October 1989 see the whole document	1, 4, 10-14

☐ Further documents are listed in the continuation of Box C.

☒ See patent family annex.

* Special categories of cited documents:
"A" document defining the general state of the art which is not considered to be of particular relevance
"E" earlier application or patent but published on or after the international filing date
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of citation or other special reason (as specified)
"O" document referring to an oral disclosure, use, exhibition or other means
"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"&" document member of the same patent family

Date of the actual completion of the international search

27 OCTOBER 2003 (27.10.2003)

Date of mailing of the international search report

28 OCTOBER 2003 (28.10.2003)

Name and mailing address of the ISA/KR



Korean Intellectual Property Office
920 Dunsan-dong, Seo-gu, Daejeon 302-701,
Republic of Korea

Facsimile No. 82-42-472-7140

Authorized officer

YOU, Ho Il

Telephone No. 82-42-481-5963



INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/KR03/01428

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 2002/0033371 A1	21.03.2002	GB 200006172 A0 GB 2360225 B2 US 6508942 BB DE 10012534 A1 DE 10012534 C2 US 2003080072 AA CN 1314311 A	03.05.2000 11.06.2003 21.01.2003 27.09.2001 03.07.2003 01.05.2003 26.09.2001
JP 3-278821 A	10.12.1991	None	
JP 3-80924 A	05.04.1991	None	
JP 10-118468 A	12.05.1998	None	
WO 95/34373 A1	21.12.1995	JP 10504228 T2 EP 764045 A1 CA 2191438 AA	28.04.1998 26.03.1997 21.12.1995
US 4,874,514 A	17.10.1989	None	